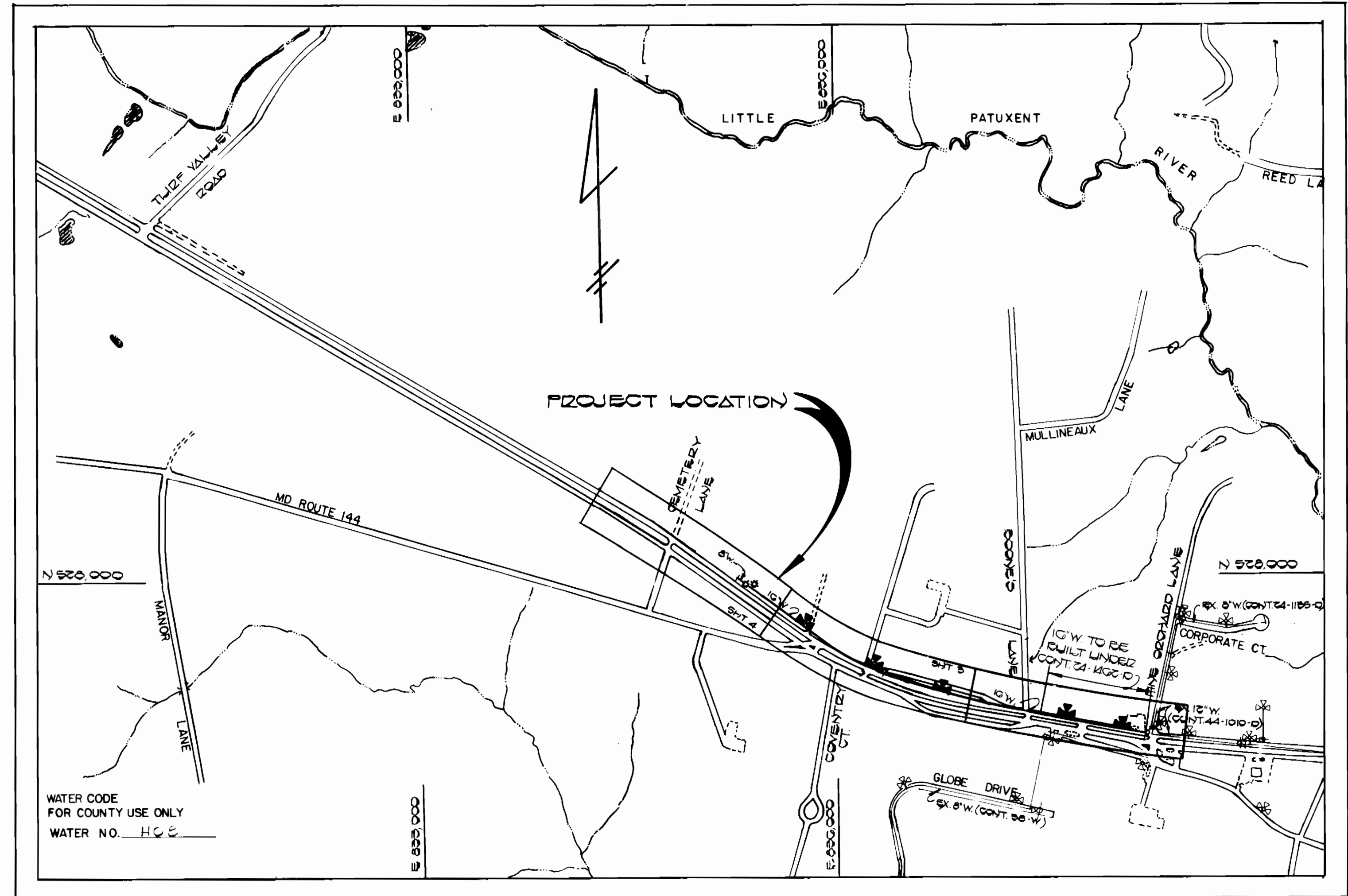


GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITIES COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION-531-5533
 BALTIMORE GAS & ELECTRIC CO.-CONTRACTOR SERVICES-561-2585
 BALTIMORE GAS & ELECTRIC CO.-UNDERGROUND DAMAGE CONTROL-234-5621
 BALTIMORE GAS & ELECTRIC CO.-TROUBLE SHOOTING-298-9013
 MISS UTILITY-1-559-0100
 C & P TELEPHONE-725-9976
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS-992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

QUANTITIES			
ITEM	EST'D	AS-BUILT	SUPPLIER
10" WATER	2150 LF.	2170 LF	Allyson S.A. & Co. Inc.
10" VALVES	2 EA.	2 Ea.	Allyson S.A. & Co. Inc.
FIRES HYD.	3 EA.	3 Ea.	Wm. H. Clayton Inc.
6" WATER	45 LF.	45 LF	Allyson S.A. & Co. Inc.
6" VALVES	3 EA.	3 Ea.	Allyson S.A. & Co. Inc.
8" WATER	46 LF.	46 LF	Allyson S.A. & Co. Inc.
8" VALVES	1 EA.	1 Ea.	Allyson S.A. & Co. Inc.



TYPE OF BUILDING: NONE
 NUMBER OF LOTS: 0
 NO. OF WATER HOUSE CONN: 0
 DRAINAGE AREA: LITTLE PATUXENT

SCALE: 1" = 600'

U.S. ROUTE 40 WEST WATER MAIN BOONE'S LANE TO CEMETERY LANE

CONTRACT NO. 44-1446-D

HOWARD COUNTY MARYLAND

DEPARTMENT OF PUBLIC WORKS

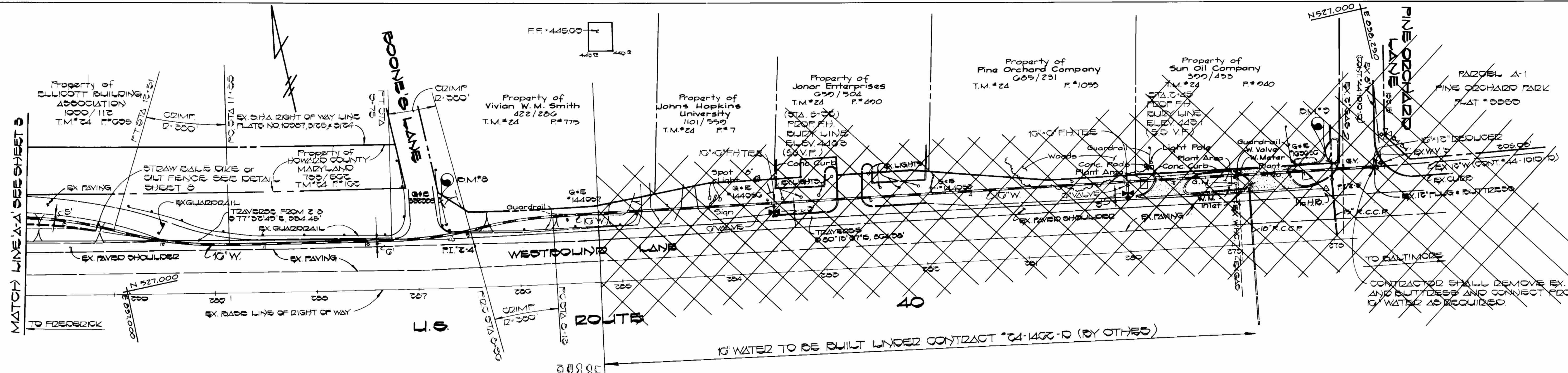
SEDIMENT CONTROL MEASURED FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 15 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS

THIS PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 APPROVED: *Stephen L. Hardy* 6/13/86
 HOWARD COUNTY SOIL CONSERVATION DISTRICT DISTRICT 10378

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS APPROVED:
Terrell A. Fisher
 U.S. SOIL CONSERVATION SERVICE DATE

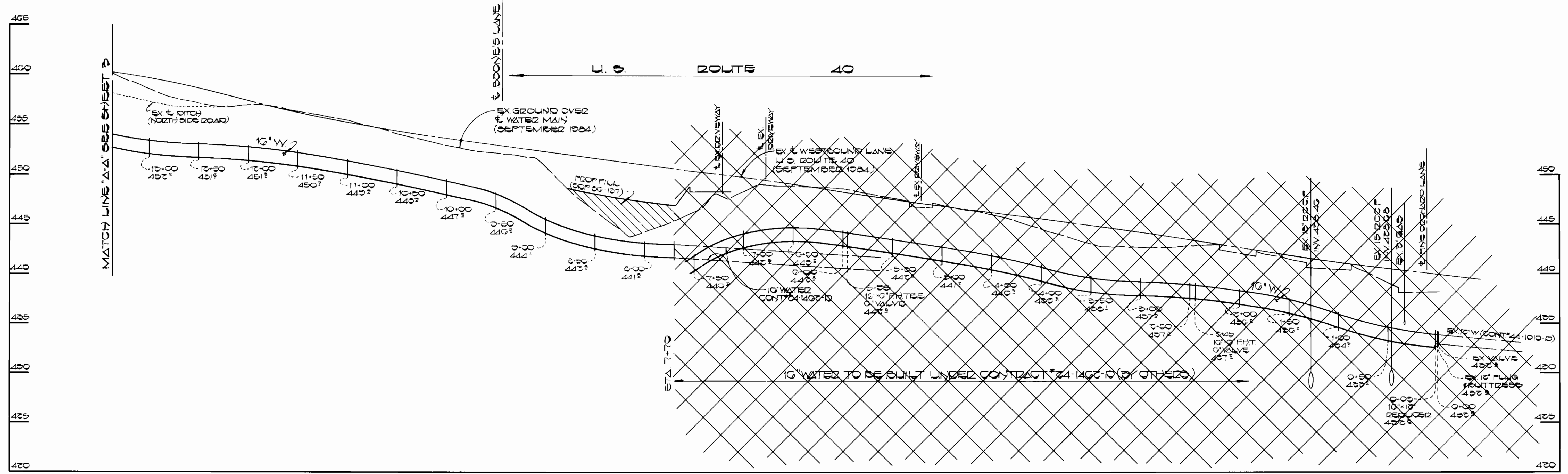
CONTRACT NO. 44-1446-D
 U.S. ROUTE 40 WEST WATER MAIN
 WATER EXTENSION
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS: <i>Robert M. Benjamin</i> 6-16-86 CHIEF, BUREAU OF UTILITIES	FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 CHIEF, LAND DEVELOPMENT DIVISION: <i>Terrell A. Fisher</i> 6-17-86	STATE OF MARYLAND TERRELL A. FISHER DATE: 6/16/86	DES: P.C.C. DRN: P.C. CHK: T.A.F. DATE: 6/16/86	TITLE SHEET	U.S. ROUTE 40 WEST WATER MAIN BOONE'S LANE TO CEMETERY LANE CONTRACT NO. 44-1446-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 5
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PLAN
1"=50'

BENCH MARKS
 B.M.#8 ELEV. 450.27
 2" SPIKE SET IN G+E POLE #30000
 INTERSECTION OF BOONE'S LANE &
 WESTBOUND LANE U.S. RTE 40
 B.M.#9 ELEV. 441.15
 3" BOLT SET IN G+E POLE #10000
 INTERSECTION OF PINE ORCHARD LANE &
 WESTBOUND LANE U.S. RTE 40

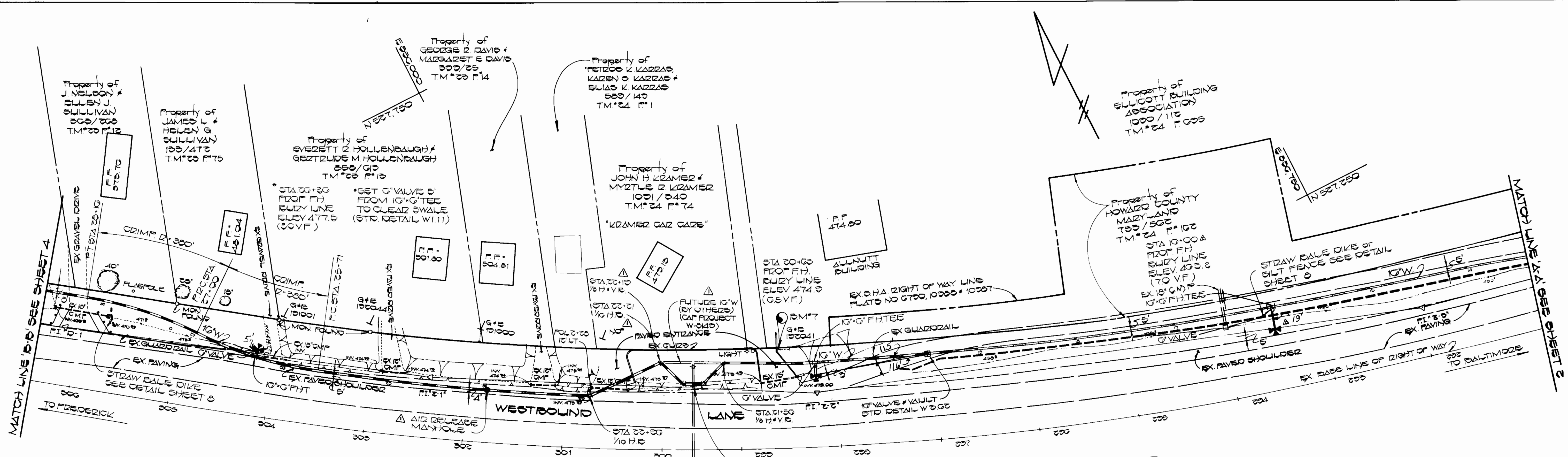


PROFILE
SCALE: HOR. 1"=50'
VERT. 1"=5'

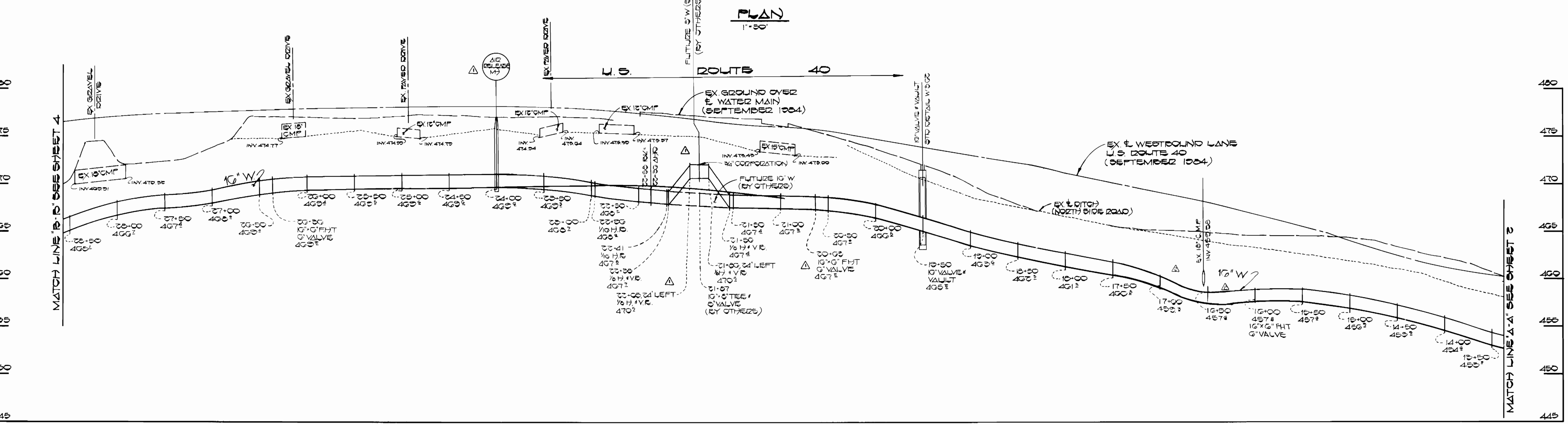
CONTRACT NO. 44-1446-D
 US ROUTE 40 WEST WATER MAIN
 WATER EXTENSION
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS Robert M. Beisinger CHIEF, BUREAU OF UTILITIES DATE: 6-16-86	FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 TERRELL A. FISHER DATE: 4/6/86	DES: D.B.S. DRN: D.B.S. CHK: T.A.F.	WATER MAIN PLAN AND PROFILE	U.S. ROUTE 40 WEST WATER MAIN BOONE'S LANE TO CEMETERY LANE CONTRACT NO. 44-1446-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 5
		DATE: 4/6/86 BY: NO. REVISION DATE: 6/11/87			600' SCALE MAP NO. 16#17 BLOCK NO.

AS BUILT 6/11/87



BENCH MARKS
 D.M.#7 ELEV 477.99
 10" NAIL SET IN G+S POLE #122241
 60' NORTH OF TRAVERSE STA. '3-C'



PROFILE
 SCALE: HORZ. 1"=50'
 VERT. 1"=5'

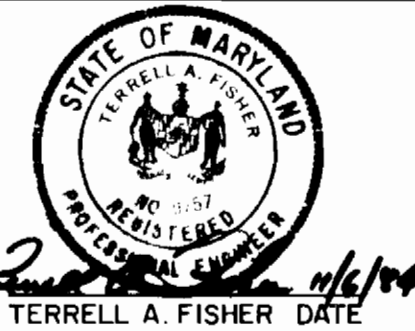
CONTRACT NO. 44-1446-D
 U.S. ROUTE 40 WEST WATER MAIN
 WATER EXTENSION
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert W. Beisinger
 CHIEF, BUREAU OF UTILITIES
 DATE: 6-16-86

Chief, Bureau of Engineering
 DATE: 6-17-86

FISHER, COLLINS, AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELICOTT CITY, MARYLAND 21043



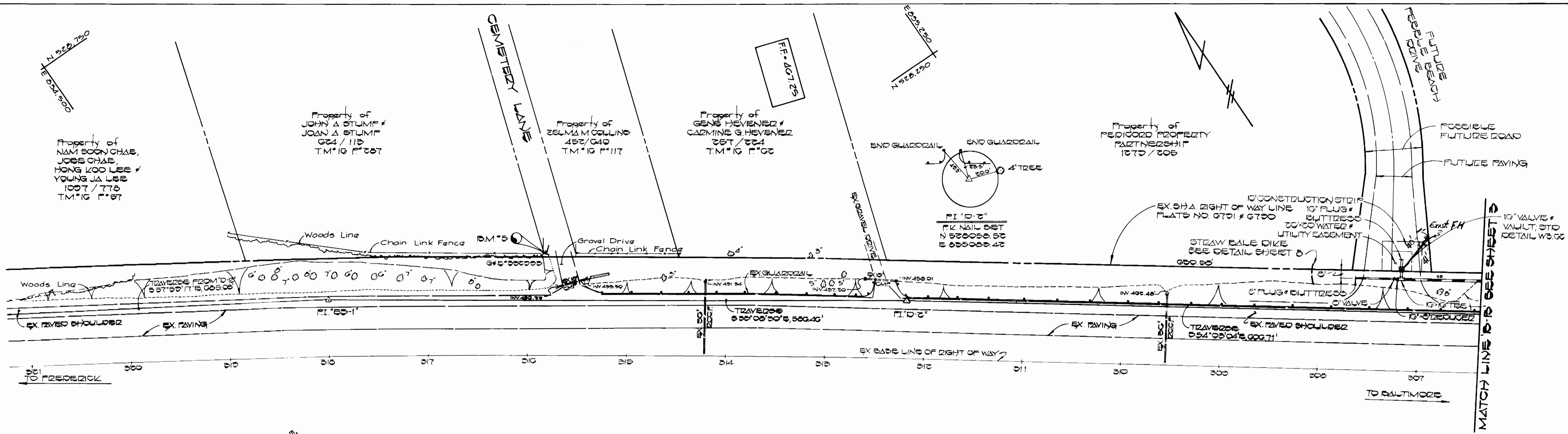
DES: D.B.S.					
DRN: D.B.S.					
CHK: T.A.F.	DAN	RELOCATE FHTS FROM STA 16+50 TO STA 16+00	9/30/84		
	DAN	RELOCATE FH FROM STA 16+50 TO STA 16+00	9/30/84		
	D.B.S.	REVISE WATER MAIN STA 20+50 TO STA 24+00 AND AIR RELEASE M7 AT STA 24+50	8/19/84		
DATE: 4/6/84	BY: NO.	REVISION	DATE	600' SCALE MAP NO. 13 & 17	BLOCK NO.

WATER MAIN
PLAN AND PROFILE

U.S. ROUTE 40 WEST WATER MAIN
 BOONE'S LANE TO CEMETERY LANE
 CONTRACT NO. 44-1446-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

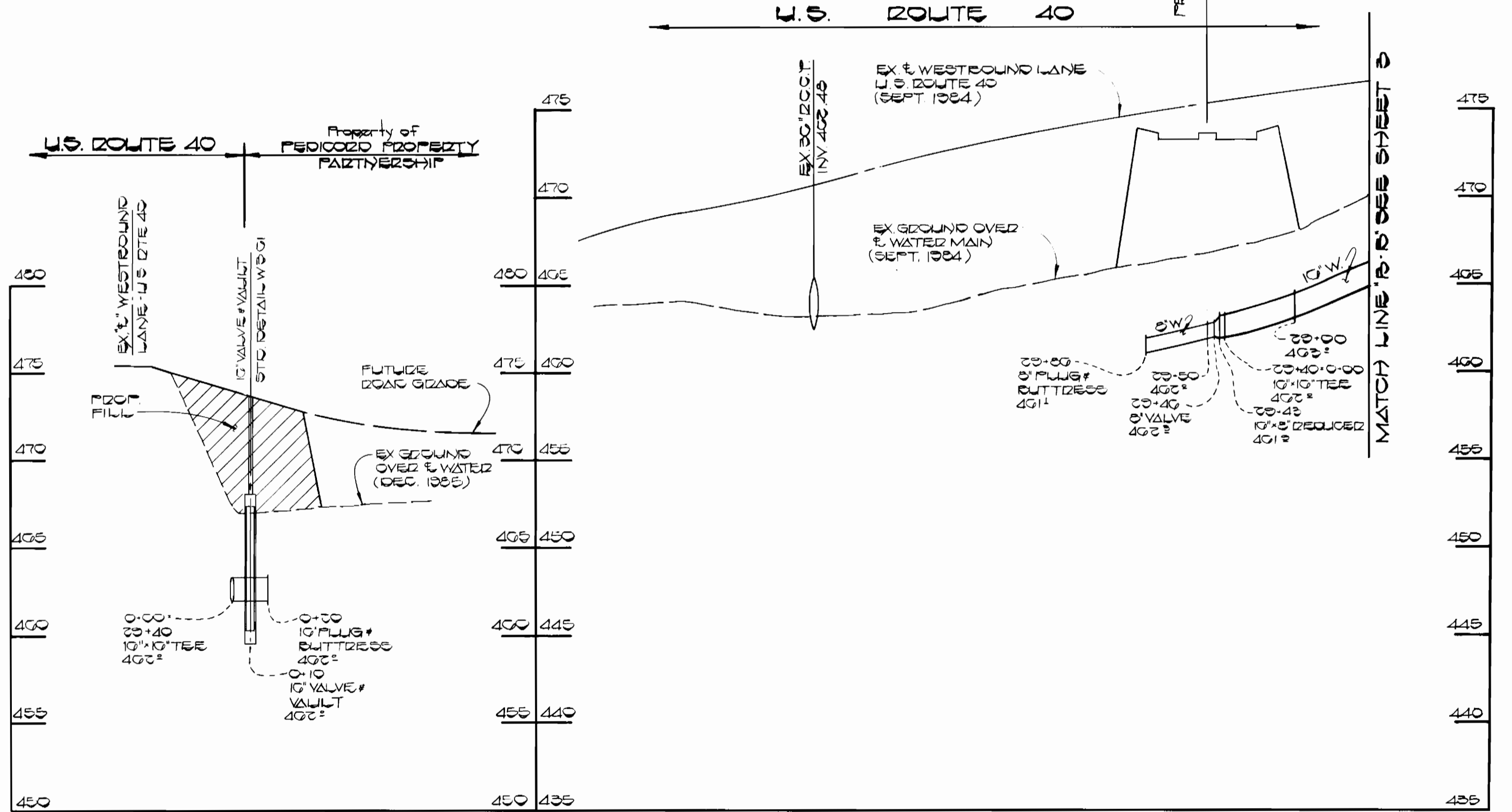
SCALE AS SHOWN
 SHEET 3 OF 5

AS-BUILT



BENCH MARK
 B.M.#5 ELEV. 400.88
 10" NAIL SET IN G#E POLE #35000
 INTERSECTION OF CEMETERY LANE
 AND U.S. ROUTE 40

PLAN
 1" = 50'

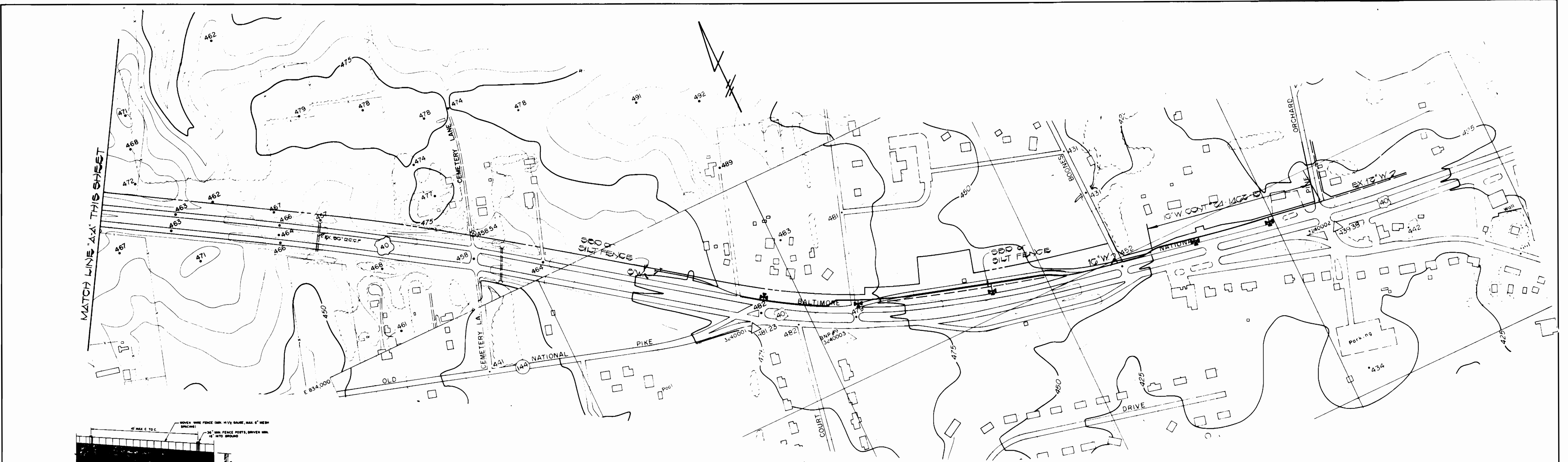


PROFILES
 SCALE FOR 1" = 50'
 VERT. 1" = 5'

CONTRACT NO. 44-1446-D
 U.S. ROUTE 40 WEST WATER MAIN
 WATER EXTENSION
 HOWARD COUNTY MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works Robert M. Bainger 6-17-86 6-16-86		FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 Terrell A. Fisher DATE: 6/17/86		DES. D.B.S. DRN. D.B.S. CHK. T.A.F. DATE: 6/17/86		WATER MAIN PLAN AND PROFILE 600' SCALE MAP NO. 10 BLOCK NO.		U.S. ROUTE 40 WEST WATER MAIN BOONE'S LANE TO CEMETERY LANE CONTRACT NO. 44-1446-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 4 OF 5	
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AS-BUILT 6/17/86



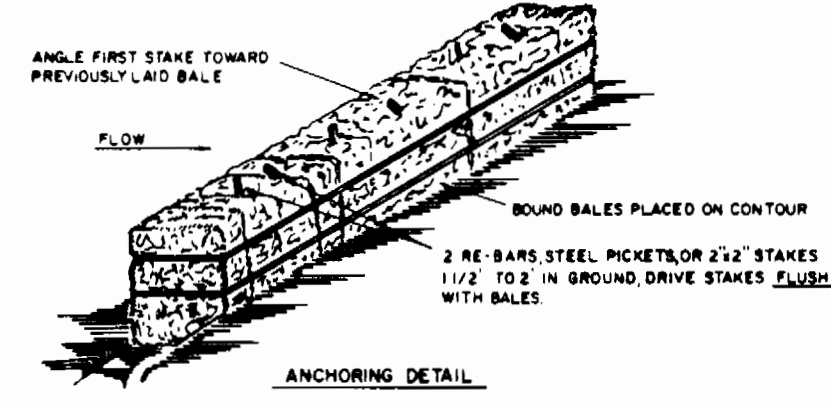
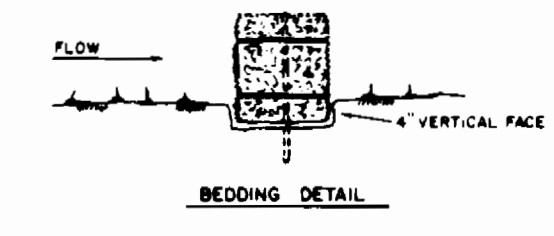
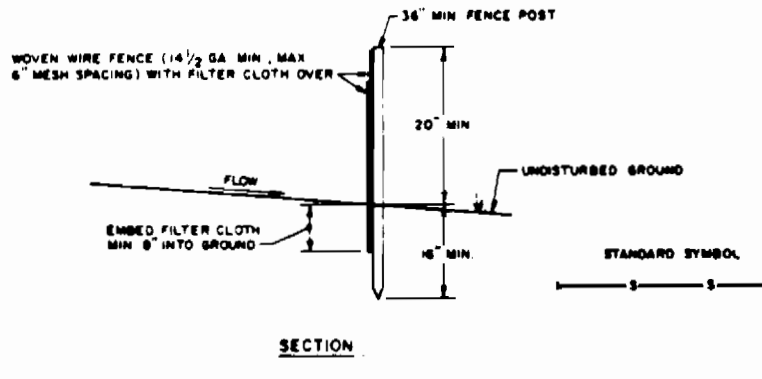
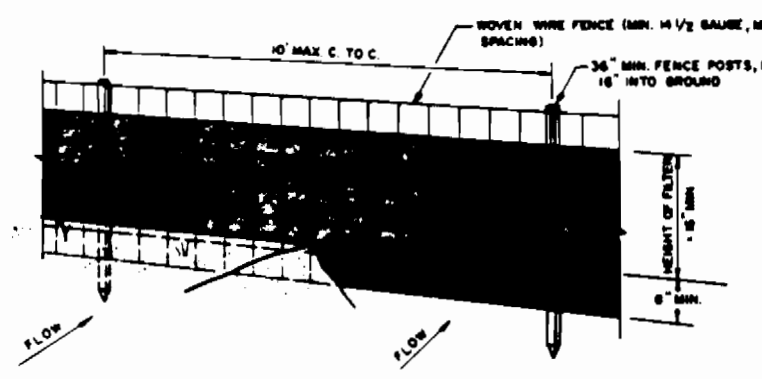
PLAN
SCALE 1"=200'



PLAN
SCALE 1"=200'

MATCH LINE 44' THIS SHEET

MATCH LINE 47' SKIN ALUMINUM



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BALES DEVELOP IN THE SILT FENCE.

- POSTS:** STEEL STUDS 1" OR 1 1/2" TYPE OF 2" HARKOSE.
- FENCE:** WOVEN WIRE, 1/2" GA. OF MAX. PESH OPENING.
- FILTER CLOTH:** FILTER X, PENAFIL, LINDA, STAB-1, LUMA TOLON OR APPROVED EQUAL.
- PRE-FABRICATED UNIT:** GEOTEX, ENVIRONMENTAL, OR APPROVED EQUAL.

SILT FENCE
NO SCALE

STRAW BALE DIKE
NO SCALE

SEDIMENT CONTROL NOTES:

1. SEDIMENT CONTROL APPROVAL IS PREDICATED ON DAILY BACKFILLING OF ALL OPEN TRENCHES.
2. PROVISIONS SHALL BE MADE FOR DAILY CLEANUP OF ANY SEDIMENT THAT ACCUMULATES ON THE PUBLIC RIGHTS-OF-WAY.

STABILIZATION NOTES:

- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
1. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1
 2. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Bainger</i> 6-16-86 CHIEF, BUREAU OF UTILITIES	FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 <i>Terrell A. Fisher</i> 4/6/84 REGISTERED PROFESSIONAL ENGINEER	DES. D.B.S. DRN. D.B.S. CHK. T.A.F.	DATE: 4/6/84 BY: NO. _____ REVISION: _____ DATE: _____	PLAN AND DETAILS SEDIMENT CONTROL	U.S. ROUTE 40 WEST WATER MAIN BOONE'S LANE TO CEMETERY LANE CONTRACT NO. 44-1446-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 9 OF 9
		600' SCALE MAP NO. 102817 BLOCK NO. _____		AS-BUILT: 6/17/87		

CONTRACT NO. 44-1446-D
U.S. ROUTE 40 WEST WATER MAIN
WATER EXTENSION
HOWARD COUNTY, MARYLAND